CP-10S

Complementary Phase Parametric Equalizer

Features

- Complementary phase
- Symmetrical boost/cut
- Calibrated controls
- Automatic bypass switching
- Gold-socketed p.c. boards
- Secure screwdriver adjust
- Long-term reliability

Applications

- Sound system equalization
- Recording studio tuning
- Resonance elimination
- Early echo suppression

The Meyer Sound CP-10S Complementary Phase Parametric Equalizer is a two-channel unit, each channel comprising five bands of fully parametric equalization and individual high- and low-cut shelving filters. Screwdriver-adjustable controls assure freedom from tampering.

The CP-10S is designed for precision room equalization in sound reinforcement or studio monitoring, and features Meyer Sound's exclusive Complementary Phase circuitry. Capable of matching exactly the properties of typical acoustic resonances and reflections, this unique circuitry makes possible simultaneous improvements to an installed system's amplitude and phase response.

The CP-10S equalizer is an integral component of Meyer Sound's proprietary SIM® (Source Independent Measurement) System II. Coupling high-resolution, in-concert, multiple-point measurement with Complementary Phase equalization, this revolutionary technology assures unprecedented sound system performance in the most difficult acoustical environments. (For more information on SIM System II, contact Meyer Sound.)

The CP-10S also serves as a very effective, high-quality equalizer for music recording monitors. Its graceful, symmetrical parametric filters and natural phase characteristics ensure maximum flexibility with minimum sonic perturbation. Coupled with very low harmonic distortion and a 110 dB dynamic range, these attributes place the CP-10S in a class with the finest room equalizers available.

With specifications to meet the most demanding professional requirements, the Meyer Sound CP-10S offers uncompromised performance in recording and reinforcement applications. Individually socketed, field-replaceable circuit cards and automatic bypass switching ensure maximum reliability with extended use.

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CP-10S Specifications

Frequency Response[1]	20 Hz – 20 kHz ±0.5 dB
Total Harmonic Distortion[2]	< 0.01%
Hum and Noise	-90 dBV “A” weighted, unbalanced
Dynamic Range[3]	110 dB
Inputs	
Type	Balanced active
Impedance	20k ohms balanced
Level[4]	+4 dBu nominal, +20 dBu maximum
Outputs	
Type	Balanced active push-pull
Impedance	300 ohms, 150 ohms per branch unbalanced
Level	+4 dBu nominal, +26 dBu maximum
Controls	
Front Panel	EQ In/Out, Center Frequency, Bandwidth,
	Boost/Cut, Lo and Hi Shelving Cut
Rear Panel	Ground Lift switch, Gain switch,
	AC Voltage switch
Indicators	
Power	Green LED
Ready	Green LED
Clip (Input and Output)	Red LEDs
Connectors	3-pin XLR male (outputs) and female (inputs)
Power	120/240V AC, 50/60 Hz, rear-panel switchable
Physical	
Dimensions	19" W x 3 1/2" H x 7 1/2" D standard rack mount
Weight	13 lbs (5.9 kg)

Notes:

1. **All equalization circuits out.**
2. **1 kHz input at +4 dBu**
3. **“A” weighted noise floor to maximum RMS output**
4. **Within the operating band of each channel, maximum input level is the minimum worst-case level achieved before clipping.**

The clearly marked front panel includes individual in/out switches for each equalization band, with screwdriver-adjustable frequency, bandwidth and boost/cut controls. LEDs indicate power status and signal clipping.

Signal flow through the device is controlled by a delayed relay which allows the CP-10S circuitry to stabilize before it is engaged. When power to the CP-10S is interrupted, input signals are bypassed directly to the corresponding outputs.

The front panel may be removed without affecting control settings, and each equalization stage resides on a separate, gold-socketed circuit card for ease of service. An optional smoked plastic security cover discourages tampering in fixed installations.

Individual In/Out switches for each frequency band
Center frequency selection (10:1 range)
Bandwidth control (0.1 octave to 1.1 octaves, continuously variable)
Boost or cut (±15 dB)
High and low shelving cut filter controls
LEDs indicate power status and

A ground lift switch floats audio common (XLR connector pin 1) from the chassis. (Earth and chassis are always connected for safety.)

A gain switch adjusts for unity gain with either balanced or unbalanced input signal connections. (Outputs remain balanced at all times.)